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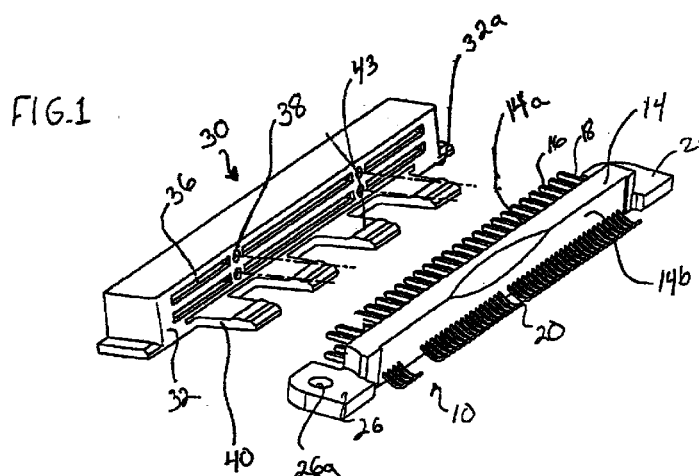
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(54) **Cover for an edge mounted printed circuit board connector**

(57) A cover is employed with an edge mount electrical header connector to secure the header connector to a printed circuit board during soldering. The header connector includes plural electrical contacts supported in an insulative housing. The contacts include extending solder tails for engagement with solder pads of the printed circuit board. The cover includes an elongate insulative body for attachment to the header connector. The body of the cover includes gripper arms extending therefrom and being in spaced opposition to the extend-

ing solder tails. The solder tails and the gripper arms form a space therebetween for receiving an edge of the printed circuit board. The gripper arms and solder tails retain the printed circuit board edge so as to permit secure soldering of the solder tails to the solder pads of the printed circuit board. The removable cover may be employed over a device bay plug to cover exposed contacts during the soldering process. The device bay plug may then be connected to a device bay receptacle.



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EUROPEAN SEARCH REPORT

Application Number
EP 98 30 9622

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
X	EP 0 437 035 A (ITT INDUSTRIES INC.) 17 July 1991 (1991-07-17) * column 3, line 14 - column 7, line 20 *	1-5	H01R23/70
A	US 4 887 353 A (AMP) 19 December 1989 (1989-12-19)		
A	US 5 419 483 A (IBM) 30 May 1995 (1995-05-30)		
A	US 4 968 266 A (THOMAS & BETTS) 6 November 1990 (1990-11-06)		
A	US 4 293 179 A (GTE) 6 October 1981 (1981-10-06)		
A	US 5 184 961 A (BURNDY) 9 February 1993 (1993-02-09)		
			TECHNICAL FIELDS SEARCHED (Int.Cl.6)
			H01R
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 20 December 2000	Examiner Bertin, M
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document</p>			

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**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

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20-12-2000

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
EP 437035	A	17-07-1991	US	5090911 A	25-02-1992
US 4887353	A	19-12-1989	NONE		
US 5419483	A	30-05-1995	US	5318212 A	07-06-1994
US 4968266	A	06-11-1990	JP	1235174 A	20-09-1989
			JP	1903279 C	08-02-1995
			JP	6030273 B	20-04-1994
US 4293179	A	06-10-1981	BE	884420 A	17-11-1980
			CA	1128619 A	27-07-1982
			IT	1132889 B	09-07-1986
US 5184961	A	09-02-1993	NONE		